

RETENTION POND CONSTRUCTION GENERAL NOTES:

1. SPECIFICATIONS
- A. ALL MATERIALS SHALL MEET OR EXCEED THE REQUIREMENTS INDICATED BELOW.
2. GEOMEMBRANE

A. THE MATERIAL FOR THE GEOMEMBRANE SHALL BE SINGLE SIDED TEXTURED AND BLACK IN COLOR HDPE, 60 MILS THICK, BY GSE LINING TECHNOLOGY OR ENGINEER APPROVED EQUAL.

B. EXTRUSION ROD OR BEAD SHALL BE MADE FROM THE SAME TYPE RESIN AS THE GEOMEMBRANE. ADDITIVES SHALL BE THOROUGHLY DISPERSED. MATERIALS SHALL BE FREE OF CONTAMINATION BY MOISTURE OR FOREIGN MATTER.

C. GSE POLYLOCK OR ENGINEERED APPROVED EQUAL SHALL BE CAST INTO THE CONCRETE SLAB AT PIPE ENTRY SUCH THAT THE GEOMEMBRANE IS ANCHORED SECURELY. INSTALLATION IS TO BE PER MANUFACTURER'S RECOMMENDATIONS.

D. STORM SEWER PIPES SHALL BE SINGLE LINED AND BANDED PER GEOMEMBRANE MANUFACTURER'S RECOMMENDATIONS.
3. GEOTEXTILE TO BE NONWOVEN NW12 GSE LINING TECHNOLOGY OR ENGINEER APPROVED EQUAL.
4. INSTALLATION

A. INSTALLATION IS TO BE PER THE GEOMEMBRANE MANUFACTURERS CONSTRUCTION METHODS (i.e. INSTALLATION QUALITY ASSURANCE MANUAL FOR GEOTEXTILE PRODUCTS, THE MANUAL FOR GEOMEMBRANE PRODUCTS AND PER SUBGRADE AND SOIL RECOMMENDATIONS FOR GEOMEMBRANE PRODUCTS.)

B. THE CONTRACTOR WILL ENGAGE AND INCLUDE IN HIS SCOPE OF WORK, THE SERVICES OF A GEOSYNTHETIC QUALITY ASSURANCE CONSULTANT AND LABORATORY TO MONITOR THE GEOMEMBRANE INSTALLATION. IT IS REQUIRED THAT THE ACTUAL MANUFACTURED LINER BE TESTED TO ENSURE COMPATIBILITY AND CONFIRM CONSISTENCY WITH THE PRODUCT DATA.

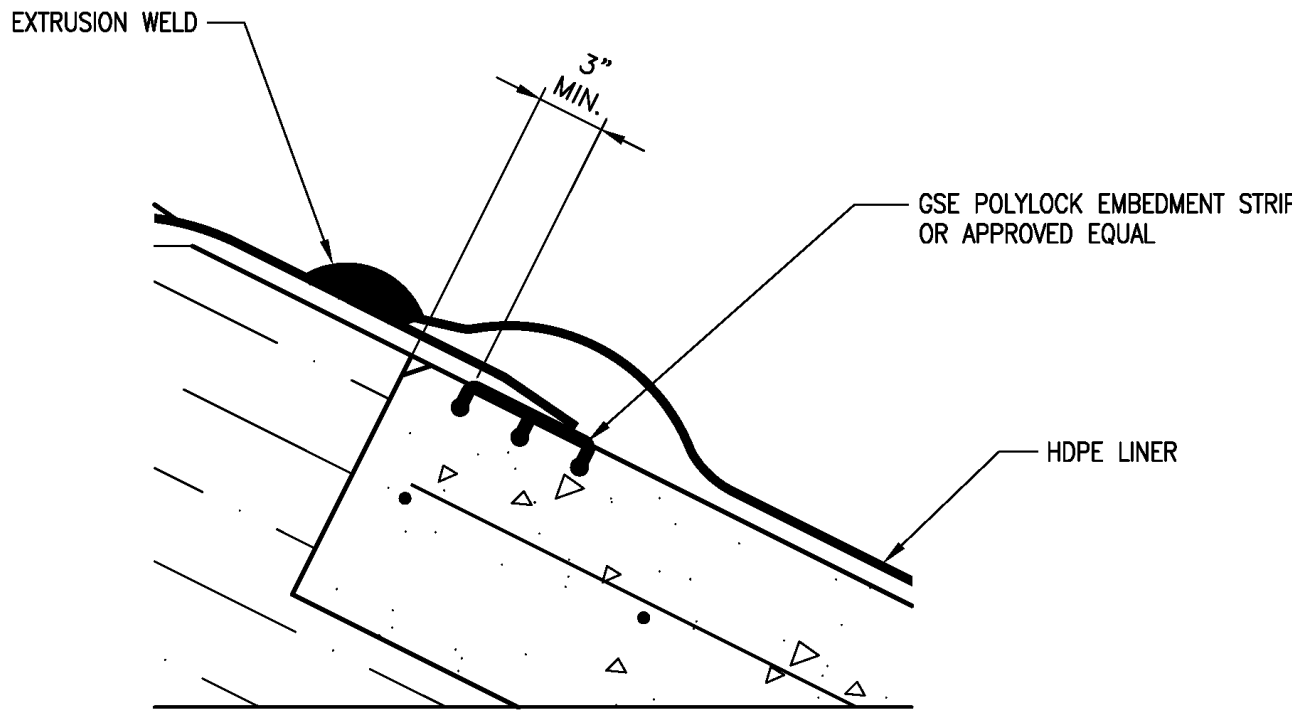
C. FIELD SEAMING, TO THE MAXIMUM EXTENT ORIENT, SHALL BE SEAMS PARALLEL TO LINE OF SLOPE, I.E. DOWN AND NOT ACROSS WHILE MINIMIZING THE NUMBER OF FIELD SEAMS IN THE CORNER, ODD-SHAPED GEOMETRIC LOCATIONS AND OUTSIDE CORNERS.

D. SLOPE SEAMS (PANELS) SHALL EXTEND A MINIMUM OF FIVE FEET BEYOND THE GRADE BREAK INTO THE FLAT AREA. ALIGN SEAM OVERLAPS (6" SUGGESTED) CONSISTENT WITH THE REQUIREMENTS OF THE WELDING EQUIPMENT BEING USED.

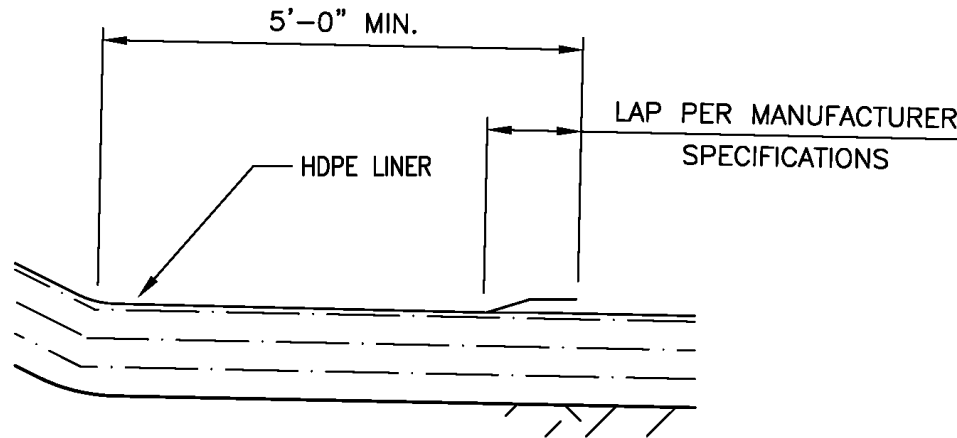
E. HOT WEDGE WELDING SHALL BE THE NORM FOR SPLICES.
5. CIVIL PREPARATION

A. BACK FILL MATERIAL FOR THE SUB-BASE SHALL BE IDOT 53 SLAG SUPPLIED BY U.S. STEEL THE TOP 12" THOUGH SHALL BE SUPPLIED BY THE CONTRACTOR AND BE IDOT 73. THIS MATERIAL IS TO BE CONFIRMED FOR ACCEPTABILITY BY THE GEOMEMBRANE MANUFACTURER. COMPACTION OF ALL MATERIALS SHALL BE SUCH THAT THE BASE IS FIRM, SMOOTH AND UNYIELDING. MINIMUM COMPACTION SHALL BE 90% MODIFIED PROCTOR AS PER ATSM- D1557.

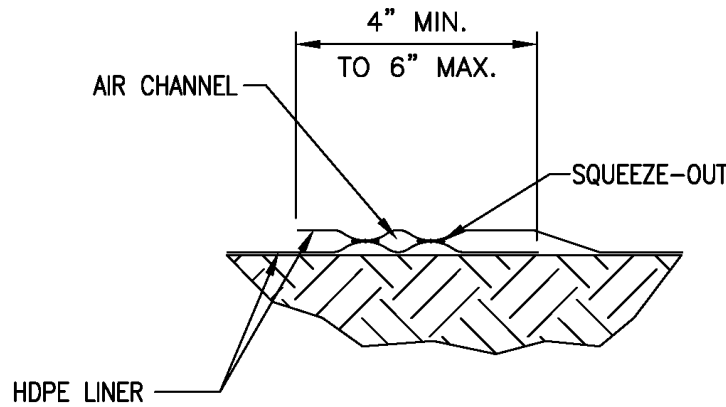
B. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF ON SITE AT AN OWNER DESIGNATED AREA.



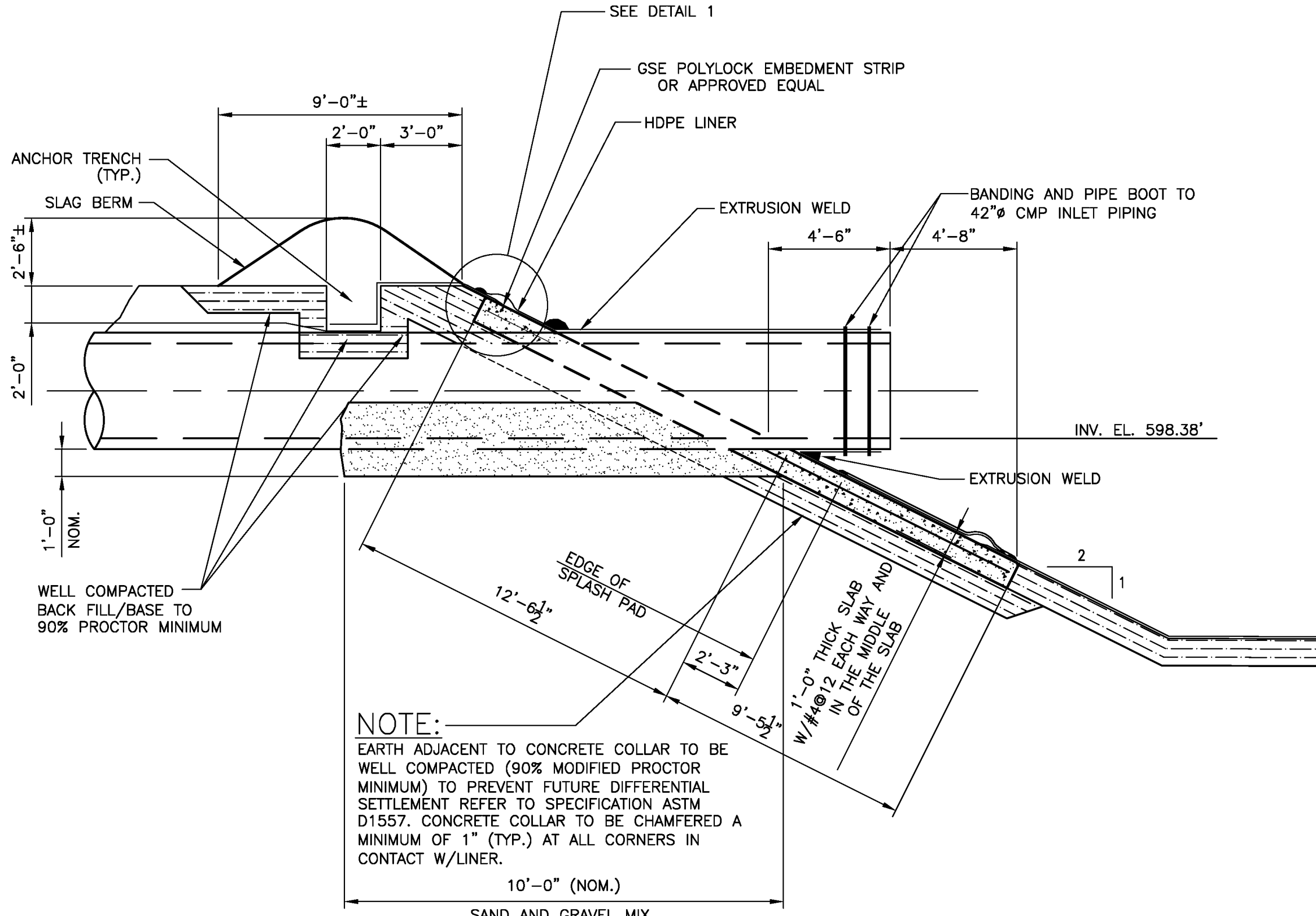
DETAIL 1
SCALE: 1 1/2"=1'-0"



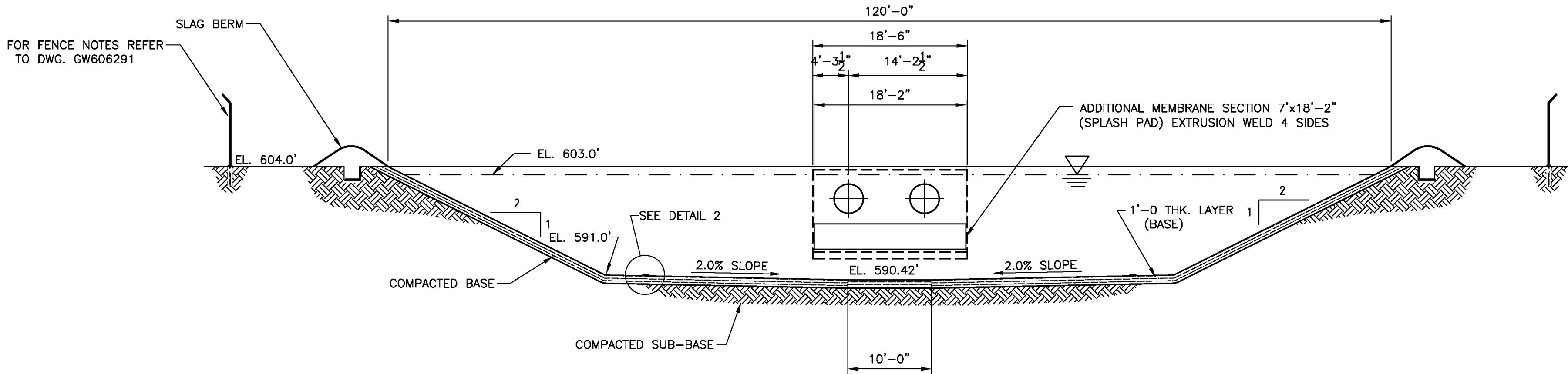
DETAIL 2 TOE OF SLOPE TRANSITION
SCALE: 1/2"=1'-0"



TYP. HOT WEDGE DOUBLE TRACK FUSION WELD
NO SCALE



SECTION A-A
SCALE: 1"=4'-0"



SECTION B-B
SCALE: 1"=10'-0"

- NOTES:
- FOR STORM SEWER SYSTEM REFER TO DRAWINGS GW606278, GW606279 AND GW606280.
 - WORK THIS DWG. W/DWG. GW606285 & GW606291 AND CONSTRUCTION SPECIFICATION H334208-CS007.

FOR REVIEW
NOT FOR CONSTRUCTION

HATCH™			Hatch Associates Consultants, Inc. Pittsburgh, PA 15219-1031		
REVISION	SCALE:	DATE			
	DESIGNED BY H. HAMILTON	12-01-10			
	DRAWN BY R. VENSEL	12-10-10			
	CHECKED BY J. ZIEGLER	3/4/2011	D	ISSUED FOR CLIENT REVIEW	3/17/11 JHZ HHH
	APPROVED BY R. STOFKO		C	ISSUED FOR CLIENT REVIEW (BID)	2/15/11 JHZ
			B	ISSUED FOR BID	2/8/11 RCV
			A	ISSUED FOR INTERNAL AND CLIENT REVIEW	12/28/10 RCV
PROJECT NO. 334208			REV.	DESCRIPTION	DATE BY CH'K.
INFORMATION: CONFIDENTIAL: ALL PLANS, DRAWINGS, SPECIFICATIONS AND/OR INFORMATION FURNISHED HEREWITH ARE AND SHALL REMAIN CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH HATCH ASSOCIATES CONSULTANTS, INC.					

STRATEGIC COKE IMPROVEMENT PROJECT STORM SEWER RETENTION POND DETAILS				
USS Gary Works United States Steel				
PREPARED BY	DATE	CHECKED BY	DATE	SCALE
				AS NOTED
PROJECT NO. UGA1-0125		GW606286		
JOB NO.				

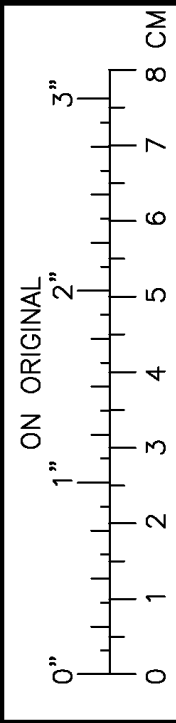


FIGURE B-1B